

New Polychlorinated Derivatives Containing the
1,4-endomethylenecyclohexane Ring, by C. A. Peri,
18 pp.

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SLA 57-3075

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Possibility for the Polycondensation of Salts of
the 4th Type (From Tetramethylenediamin and Succinic
Acid.), by Vittorio Martello, Ugo Giolitt, 8 pp.

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pp 1224-1231.

S.L.A. Tr 901/1956

Sci - Chemistry

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New Compounds with an Amine Function and Amide Derivatives of Hydrogenated Quinolines Containing Radicals of Piperidine and Morpholine, by R. Landi-Vittory.

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Cyanethylation of Aromatic Amines, 8 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVI, 1956, pp 70-76.

CIA/FID XX-245

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Sci - Chemistry

Feb 1957 CTS/dex

IAC INTERNAL USE ONLY

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Research on the Theory of Concentrated Solutions
of Strong Electrolyte. IX. On the Calculations
of the Cryoscopic Lowering of Concentrated Aqueous
Solutions of Lithium Chloride, by Camillo Dejak,
11 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVIII,
pp 246-254, 1951.

S.L.A. Tr 971/56

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Sci - Chemistry
Sep 56 CTS

Research on the Theory of Concentrated Solution of Strong Electrolytes. X. The Practical Importance of Some Terms Which Have Been Neglected in the Calculations of Huckel for Activity Coefficients Solutions of Strong Electrolytes, by Camillo Dejak, 3 pp.

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S.L.A. Tr 972/55

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Substances Similar to Muroxing. Preparation
and Properties of a Series of Choline
Esters of Acrylic and Propionic Acids,
D-Substituted With Different Heterocyclic
Nuclei.

ITALIAN, per, Gazzetta Chimica Italiana,
Vol LXXXVI, 1956, pp 266-274.

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Sci - Chem

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The Nitration of 2-Methylnaphthalene, by Marco
Civera, Carlo Torello, 8 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol LXXXVI,
1956, pp 350-357. CIA 609925

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SLA 57-3389

Sci - Chem

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l'or, by G. Poli, 24 pp.
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No 5-7, 1956, pp 526-550.

Reverse Translation
CEA-X-309

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and the Processes of Desorption, by E. Molinari.
ITALIAN, per, Gazetta Chimica Italiana, Vol 86,
No 5-6-7, 1956, pp 60-551
GB/316/CU 64/18

Sci -
Jul 67

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Research on Aromatic N-Hydroxides. Inter-and Extra-
molecular Oxidation of 1-Hydroxy-2-Arylhydrazopyridine
By, M. Colonna, G

ITALIAN, per, Gazzetta Chimica Italiana, Vol. LXXXVI
1956, pp 705-709.

ATS-79-IJ

Sci-
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Researches on Ethylenation. VI. Stereoisomerism
of Thio and Sulfonyl Chloride Vinyls, by
Fernando Montanari, 13 pp.

ITALIAN, per, Gazz Ital, Vol LXXXVI, 1956, pp 735-
746.

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IAC INTERNAL USE ONLY

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Chiusoli, G. P., Minisci, F., and Quilico, A.
C₁₀ DIBASIC ACIDS DERIVED FROM DECALIN.
Pt. I of Studies of the Oxidative Opening of Alicyclic
Rings. [1962] 9p.
Order from ATS \$14.40 ATS-72N56I

Trans. of Gazz[etta] Chim[ica] Ital[iana] 1957, v. 87,
p. 90-99.

DESCRIPTORS: *Dibasic acids, Carbon Oxidation,
*Naphthalenes.

(Chemistry--Organic, TT, v. 8, no. 9)

62-12070

- I. Title: Decalin
- I. Chiusoli, G. P.
- II. Minisci, F.
- III. Quilico, A.
- IV. Title: Studies . . .
- V. ATS-72N56I
- VI. Associated Technical
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Orange, N. J.

AT-1018-IT

Office of Technical Services

Orsini, Paola Giordano and Jannelli, Lilliana.
A STUDY OF THE SYSTEM PYRIDINE-BENZENE.
NOTE II. CRYOSCOPIC BEHAVIOR. [1963] 21p.
(figs. omitted) 15 refs.
Order from SLA \$2.60

63-18010

Trans. of ~~Gazzetta~~ Chimica Italiana 1957, v. 87,
p. 159-170.

DESCRIPTORS: *Phase studies, Thermodynamics,
Freezing, Molecular weight, *Pyridines, *Benzenes,
Eutectics, *Dipole moments, Electric moments,
Determination.

(Chemistry--Physical, TT, v. 10, no. 6)

63-18010

- I. Title: Cryoscopy
- I. Orsini, P. G.
- II. Jannelli, L.
- III. Title: Cryoscopic ...

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Berti, Giancarlo.

CONCERNING THE PROPERTIES OF DIBENZO (a, e)
TROPYLIUM AND 5-PHENYLDIBENZO (a, e)
TROPYLIUM. Nov 61 [27]p. [refs. omitted].
Order from SLA \$2.60

62-14355

Trans. of Gazz[etta] Chim[ica] Ital[iana] 1957, v. 87
[no. 3] p. 293-309.

DESCRIPTORS: *Cycloheptatriene derivatives, Benzoyl
radicals, Phenyl radicals, Chemical properties,
Spectrographic analysis, Dissociation, *Tropylium
compounds.

The behavior is dismissed of sulfuric acid solutions of
dibenzo [a, e] cycloheptatriene-5-ole and its 5-phenyl
derivative, in which the dibenzotropylium and 5-phenyl-
dibenzotropylium ions are present. Some reactions of
these ions are reported, as well as the absorption
(Chemistry--Organic, TT, v. 8, no. 6) (over)

62-14355

1. Berti, G.

Office of Technical Services

Researches on As-naphthotriazines. Article No 1:
- 2,1-As-naphthotriazine and 1,2-As-naph-
thotriazines. IX. On Asymmetrical Triazines, by
Raffaello Fusco, Giuseppe Bianchetti, 13 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol LXXVII,
No 4, 1957, pp 438-449.

Dept of Commerce
Patent Office
Sci Lib (Circ)

OTS 59-14706

Sci - Chem
Apr 59 -

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Researches on Asymmetrical Triazines. Article No XX:
Aminonaphthotriazines. X. On Asymmetrical Tri-
azines, by Raffaello Fusco, Giuseppe Bianchetti,
11 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol LXXXVII,
No 4, 1957, pp 446-453.

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Sci - Chem
Apr 59

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Azothiobenzenes, by G. Leandri, P. Robora.

ITALIAN, per, Gazzetta Chimica Italiana,
Vol LXXXVII, 1957, pp 503-509.

ATS 06M381
ATS/1023-IJ

Sci - Chem

Jul 60

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Polymerization of Alpha Olefins; Report 2. Synthesis of Linear Isotactic and Non-Isotactic Polymers of Propylene; Report 3. Polymerization of Propylene With Different Stereospecific Catalysts, by Giulio Natta et al, 52 pp.

ITALIAN, per, Gazetta Chimica Italiana, Vol LXXXVII, No 5, 1957. pp 528-585.

REF ID: A670-121-17
- SLAB-17048
pp 528-548.

CIA/FDD XX-495

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Phosphoric Esters of Vanillin and Some of Its
Derivatives, by A. Segre, A. Larizza.

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1957, pp 519-527.

ATS 241-LJ

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Nov 59

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Mechanisms of Hydration of Nitriles and Urea
Catalyzed by Mercury Salts, 15 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVII, No 6,
1957, pp 673-681.

SLA 57-3477

Sci
Apr 59

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Kinetics of the Hydrolysis of Acetonitrile Catalyzed
by Mercury Salts, by G. Travagli, 8 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVII, No 6,
1957, pp 682-687.

SLA 57-3397

Sci
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Spectroscopic Behavior of the NH Group of the Aromatic
Amines in Infrared Light. 3rd Report. Oscillations
of Deformation, by S. Califano, R. Moccia, 20 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVII, 1957,
pp 805-829.

NIH Tr 3-7

Sci - Medicine
Apr 58

Chemistry

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Kinetic Comparison of the Action of Various Acids on
the Catalytic Hydration of Acetonitrile, by Giuseppe
Travagli, 9 pp.

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No 6, 1957, pp 830-836.

SLA 59-10555

Sci - Chem
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Vol 2, No 1

97, 276

Magnetic Behavior and Absorption Spectrum of
Chromous Acetate, by C. Furlani.

ITALIAN, per, Gazz Chim Ital, Vol LXXVII,
No 7/8, 1957, pp 876-884.

AMS 228-IJ

Sci - Chem

Nov 59

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Papini, P[iero] Checchi, S[ilvio] and Ridi, M[ario].
RESEARCH IN THE GUANAZOL PYRAZOLIDINE
SERIES. [1961] [13]p. 7 refs.
Order from SLA \$1. 60

61-20210

[Partial trans.] (p. 931-934, 936, 942) from Gazzeta
Chimica Italiana, 1957 [v. 87, no. 7/8].

DESCRIPTORS: Synthesis, Chemical reactions,
*Pyrimidines, *Phenyl radicals, *Hydrazines, *Guanidoacetic acids, *Azoles, *Alcohols, *Benzyl radicals, *Acetic acids, *Sodium compounds, *Hydroxides, Azo radicals

A description is given of the synthesis of [1-phenyl-5-imino-4'-oxo-5'-acetyl-(1, 2, 4-triazolidine)]-(2, 3; 2', 3')-3', 4'-dihydropyrimidine by the reaction of alcoholic sodium hydroxide with the ethyl ester of 1-phenyl-3, 5-diliminomethylene acetacetic acid (1, 2, 4-triazolidine) prepared by the reaction of the ethoxymethylene (Chemistry--Organic, TT, v. 7, no. 9) (over)

61-20210

1. Title: Guanazol pyrazolidine series

I. Papini, P.

II. Checchi, S.

III. Ridi, M.

Office of Technical Services

Synthesis of Some Asymmetric Triazino Derivatives, by V. Sorio, F. Madonna.

ITALIAN, per, Gazzetta Chimica Italiana,
Vol LXXXVII, 1957, pp 992-997.

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Sci - Chem
Jul 62

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Researches on Ethylenation. XII. Stereospecific
Synthesis of Cis and Trans-Beta-Aryl-Mercepto-
Acrylic Acids and Respective Sulfones, by Fernando
Montanari, Adriana Negrini, 16 pp.

ITALIAN, per, Cass Chim Ital, Vol LXXXVII, 1957,
pp 1073-1085.

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Chemical Investigations of the Aspergillus
Glaucus Group. XIII. Echinulin, by A.
Quilico, F. Piozzi, C. Cardani, 25pp.
ITALIAN, per, Gazzetta Chimica Italiana,
Vol 88, 1958, pp 125-148.
CFSTI NRC C-4945.

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Sci - Chemistry
Mar 67

Stereospecific Polymerization of Alpha-olefins.
Note IV. Polymerization of Propylene with Titanium
Chlorides and Various Aluminum Trialkyls, by
G. Natta, P. Pino, 13 p.

CESTI TT-64-20116
ITALIAN, per, Gazz Chim Ital, 1958, Vol LXXXVIII,
No 2, pp 219-228.

SLA 59-17561

Sci
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Vol 2, No 10

108,833

~~Complexes~~ Complexes of Ni With Stilbenediamine. Theory of the
the Absorption Spectra of Diamagnetic Ni Complexes,
by C. Furlani.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVIII, No 3,
1958, pp 279-295.

ATS 226-LJ

Sci - Chem
Nov 59

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A Contribution to the Knowledge of Organometallic
Compounds. Reactions Between Tetramethyl Lead,
Tetraethyl Lead and AuCl_3 , by Giuseppe Tagliavini,
Gaetano Schiavon, Umberto Belluco, 14 pp.

ITALIAN, per, Gazzetta Chim Ital, Vol LXXXVIII,
No 8/9, 1958, pp 746-754.

SIA 59-10721

Sci - Chem
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Vol 2, No 2

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Observations on the Absorption Spectra in the
Near Ultraviolet of a Few Organic Sulfur Compounds
and Corresponding Electron Transitions, by Angelo
Mangini, 36 pp.

ITALIAN, per, Gazzetta Chim Ital, Vol LXXXVIII,
No 11, 1958, pp 1063-1080.

SLA 59-15059

Sci - Chemistry
Sep 59
Vol. II, No 2

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The Aluminium Electrode in Potentiometry, by E.
Scarano, 10 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXVIII,
1958, pp 1195-1201.

ABC IG-Inf-Ser-73

Sci - Chem
17 Mar 61

141, 278

Some Cobalt Complexes Containing Carbon Monoxide and
Aromatic Hydrocarbons, by P. Chini, R. Ercoli.

ITALIAN, per, Gazz Chim Ital, Vol LXXVIII, 1958,
pp 1170-1182.

ATS 177-IJ

Sci
Nov 59

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Natta, Giulio, Mazzanti, G. and others.
PREPARATION AND STRUCTURE OF HIGH LINEAR
POLYMERS OF HEXYNE-1. [1961] 40p. [7 figs.
omitted] 27 refs.
Order from SLA m\$3.00, ph\$6.30 61-10713

Trans. of Gazz[etta] Chim[ica] Ital[iana] 1959, v. 89
[no. 2] p. 465-494.
Another translation is available from ATS \$29.45 as
ATS-11L331 [1959] 25p.

The polymerization of hexyne-1 with catalysts, agents
with coordinate anionic mechanism prepared from var-
ious salts of titanium and triethyl aluminum, was stud-
ied. The polymers obtained were fractionated by ex-
traction with solvents. The polymer that is insoluble
in boiling acetone, and that is obtained by using $TiCl_3$
(a-modification) as titanium compound, has a high
molecular weight and a substantially linear structure.
An examination of the chemical behavior of this polymer
with the reagents characteristic of double bonds, an
(Chemistry--Organic, TT, v. 5, no. 12) (over)

61-10713

1. Polymers--Synthesis
 2. Polymers--Molecular
structure
 3. Hexyne--Polymerization
- I. Natta, G.
 - II. Mazzanti, G.

K-H-10509

148633

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Oxygen Pressure and Range of Stability of Non-Stoichiometric Oxides of Uranium of the Types UO_2 and U_4O_9 , by A. Burdese.

ITALIAN, per, Gazzetta Chimica Italiana, Vol LXXXIX, No 3, 1959, pp 718-731.

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EE/45

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The Adsorption of O₂ on the Monomolecular
Film of Co-Disalicylaldehydeethylenediimine,
by Enzo Ferroni, Augusta Ficalbi. UNCLASSIFIED

ITALIAN, per, Gazzetta Chimica Italiana, Vol
LXXXIX, No 3, 1959, pp 750-755. 7676895

Navy 2602/NRL 811

Sci - Chem
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62-10054

Ferroni, Enzo, Ficalbi, Augusta, and Gabriell,
Gabriella.

MONOMOLECULAR FILMS OF PHOTOTROPIC
COMPOUNDS, NOTE I. [1961] 6p. 20 refs.
Order from SLA \$1.10 62-10054

Trans. of Gazz[ette] Chim[ica] Ital[iana] 1959, v. 89
[no. 3] p. 756-[760].

DESCRIPTORS: Phenyl radicals, Azo radicals,
Amines, Naphthyl radicals, *Monomolecular films,
Films, Photochemistry, Isomeric transitions.

(Chemistry--Organic, TT, v. 7, no. 7)

I. Ferroni, E.
II. Ficalbi, A.
III. Gabriell, G.

Office of Technical Services

Stereospecific Polymerization of Conjugated
Diolefins with Catalysts Containing Different
Lattice Structural Forms of $TiCl_3$, by Guillo Natta,
Lido Porri, Leonardo Fiore, 15 p.

ITALIAN, per, Gazz Chim Ital, 1959, Vol LXXIX,
No 3, pp 761-774.

SLA 59-20016

Sci

Feb 60 Vol 2, No 10

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Isotactic Polymers of Methyl-Substituted Styrenes,
by Dario Sianesi, Giulio Natta, Ferdinando Danusso, 10 p

ITALIAN, per, Gazzetta Chimica Italiana, 1959,
Vol LXXXIX, No 3, pp 775-783.

SLA 60-10020

Sci
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Vol III, No 2

111, 662

Radiographic Identification of Some Isotactic
Polymers, by Giulio Natta, Paolo Corradini,
Ivano Walter, 15 p.

ITALIAN, per, Gazzetta Chimica Italiana, 1959,
Vol LXXXIX, No 3, pp 784-797.

SLA 60-10701

Sci

May 60

Vol 3, No 4

116,779

Interpretation of the Infrared Spectrum of Isotactic
Polypropylene, by Mario Peraldo, 17 pp.

ITALIAN, per, Gazz Chim Ital, Vol LXXXIX, pp 798-808.
1959.

RIS 97070

ATS-54L34I

Sci - Phys

Aug 61

Nucleophilic Reactions of Ethylene Derivatives, II. Mechanism of the Displacement of Chlorine in 1-Arylsulfonyl-2-Chloroethylenes; Reactions With Alkoxides, by L. Maioli, G. Modena, 10 pp.

ITALIAN, per, Gazzetta Chimica Italiana, 1959, Vol LXXXIX, No 3, pp 854-865.

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ATS-251-EJ
ATS-02M381

Sci
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Vol IV, No 2

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Nucleophilic Reactions of Ethylenic Compounds.
III. Mechanism of the Displacement of Chlorine
in 1-Arylsulfonyl-2-Chloro-Ethylenes;
Reactions With Thiophenoxides and Sodium
Azide, by G. Modena, P. E. Todesco, 10 pp.

ITALIAN, per, ~~EM~~ Gazzetta Chimica Italiana,
Vol LXXXIX, N. 3, 1959, pp 666-677.

ATS-7521-15
ATS-04M38

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186.304

Nucleophilic Reactions of Ethylenic Compounds. IV. Mechanism of the Displacement of Chlorine in 1-Arylsulfonyl-2-Chloroethylenes; Reactions With Primary and Secondary Amines, by G. Modena, P. E. Todesco, S. Tonti, 8 pp.

ITALIAN, per, Gazzetta Chimica Italiana,
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ATS-03M381

ATS-753-IT

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Sci
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Vol IV, No 2

Reactions of Carbon Monoxide; The Function of
Nickel Carbonyl in Some New Syntheses, by
G. P. Chiusoli, 5 pp.

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Vol LXXXIX, No 5/6, 1959, pp 1332-1337.

ATS-09M38I

SLA 62-113
ATS/1004-15
187, 188

Mar 62

Investigation of Ethylene Substitution.
XVI. Stereochemistry of Nucleophilic
Substitution in 1-Halo-2-Arylsulfoxyeth-
ylene, by F. Montanari, A. Magrini, 5 pp.

RIASSUNTO, publ. Gazzetta Chimica Italiana,
Vol. LXXXII, No 7/8, 1952, pp 1543-1547.

ATS-754-15
ATS-06M301

186, 305

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Reactions of N'(b-Phenylethyl) Biguanide,
by A. Dansi, C. Zanini, *Spj*

ITALIAN, np, Gazetta Chimica Italiana,
Vol LXXXIX, No 7/8, 1959, pp 1681-1686.

ATS-434421
ATS/1053-LJ

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Preparation and Structure of Linear High Polymers of
1-Hexyne, by G. Natta et al.

ITALIAN, per, Gazz Chim Ital, Vol LXXXIX, No 11,
1959, pp 485-494.

ATS 137-LJ

Sci
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Oxygen Pressure and Range of Stability of Non-Stoichiometric Oxides of Uranium of the Type of UO_2 and U_4O_9 , by Aurelio Burdese, 22 pp.

ITALIAN, per, Gaze Chim Ital, Vol LXXXIX, 1959, pp 718-731.

ABC NP Tr-466

Sci - Chem
27 Oct 60

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Interpretation of the Infrared Spectrum of Isotactic Polypropylene, by Mario Peraldo, 17 pp.

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Sci - Phys

Aug 61

Vol. 2 No 12

11 763, 821

The Effect of Bromoform and Chloroform on Some
Pyrroles, by O. Bocchi.

ITALIAN, per, Gazzetta Chimica Italiana, Vol. XXX,
No 1, 1960, pp 89-96.

* ~~REDACTED~~ AERE, Harwell ~~REDACTED~~

Sci - Chem
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Research on 4-OXY-Coumarin and its
Derivatives. Report No. 1. Synthesis
of Coumofuranic Compounds Belonging
to the 4H-Furo (3,2-c)-(1)-Benzopyran
System, by S. Checchi.
ITALIAN, per, Gazzeta Chimica Italiana,
Vol 90, 1960, pp 295-303.
NTC 72-10507-07C

Apr 72

Nitroso-Imidazoles. Action of Phenyl Hydrazine.
Note VII, by M. Ruccia, G. Natale, S. Cusmano,
7 pp.

ITALIAN, per, Gazzetta Chimica Italiana,
Vol LXXX, 1960, pp 831-837.

NIH 9-4-61

Sci - Med

Jan 62

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Etude Thermogravimetric du Mechanisme
de Debaronation, en Atmosphere de CO₂,
des Carbonates de Magnesium Anhydres, by B. Visintin,
M. Cignitti, 10 pp.

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No 5/6, 1960, pp 863-870. 9069327

CEA X-417
Reverse Translation

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SYNTHESIS OF LINEAR OCTAISOXAZOLES. [1961]
11p.
Order from ATS 515.90

ATS-37N481

Trans. of Gazz[etta] Chim[ica] Ita[liana] 1960. v. 90.
no. 9/10, p. 1253-1265.

(Chemistry--Organic, IT, v. 5, no. 10)

61-12986

1. Oxazoles--Synthesis
- I. Gaudiano, G.
- II. Ricca, A.
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- IV. ATS-37N481
- V. Associated Technical
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108893

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On the Various Crystalline Modifications of
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ITALIAN, per, Gazzetta Chimica Italiana,
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NIH 10-25-63

Sci - Biol & Med
Nov 63

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NEW HALOGEN CARBONYL PLATINUM II COMPOUNDS,
BY LAMBERTO MALATESTA, LUCIAA MALDINI,
10 PP. N

ITALIAN, PER, GAZZETTA CHIMICA ITALIANA,
VOL XC, 1960, PP 1505-1515. 9088379

AEC TR-4786

SCI - PHYS

NOV 61

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The Reaction Products of Penta-Iodocarbonyl Iridate
(P.I.) with Potassium With Ammonia and the
Aliphatic M Amines, by Luciana Maldini, 5 pp.

ITALIAN, per. Gazzetta Chimica Italiana, Vol XC,
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AEC Tr-4784

Sci - Chem
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Solutions of Alkali Metals in Liquid Ammonia.
I. Thermodynamic Measurements, by Leonello
Paoloni, 22 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XC,
1960, pp 1682-1699. 9201239

ABX UCRL Tr 861(L)

Sci - Chem

Jan 63

219 475

Solutions of Alkali Metals in Liquid Ammonia.
II. Electrochemical Measurements, by Leonello
Paoloni, 11 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 121-144. 9201239

AEC UCRL Tr 861(L)

Sci - Chem

Jan 63

214 495

Solutions of Alkali Metals in Liquid Ammonia.
III. Magnetic Measurements, by Leonello Paolini,
22 pp.

ITALIAN per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 412-427. 9201239

AEC UCRL Tr 861(L)

Sci - Chem

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Pajaro, Gastone, and Baldi, Luciano.
KINETICS OF THE ISOTOPE EXCHANGE BETWEEN
TRIISOBUTYLALUMINUM AND ISOBUTYLENE.
[1961] 2750 words, 18 refs.
Order from CTS (Chem) \$11.00 CTS(Chem)-239
subsequent copies \$1.80/ea

Trans. of Gazz[etta] Chim[ica] Ital[iana] 1961, v. 91,
p. 493-503.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Butyl radicals, Aluminum, *Butenes,
Exchange reactions, Reaction kinetics, Pyrolysis,
Radioactive isotopes.

(Chemistry--Organic, TT, v. 7, no. 7)

62-12297

- I. Pajaro, G.
- II. Baldi, L.
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Palo Alto, Calif.

Office of Technical Services

OnS Solutions of the Alkali Metals in Liquid
Ammonia Note IV: Spectroscopic and Photochemical
Measurements. X-Ray Diffraction, by Leonello
Peoloni, 10 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 518-528. 9097033

AEC UURL Tr-741

Sci - Chem
Apr 62

190,508

Solutions of Alkali Metals in Liquid Ammonia

Part V. Chemical Characteristics, by Leonello
Pizz Paolucci, 8 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XXI,
1961, pp 529-536, 9207687.

AEC-UCRL-Tr-944(L)

Sci - Chem
Jun 63

231,900

Sciaky, Robert.
SYNTHESIS OF 6-SUBSTITUTED ANALOGS OF STEROID HORMONES. 2 July 61 [12]p. 21 refs.
Order from S.A. 31.60

62-14911

Trans. of Gazz[etta] Chim[ica] Ita[liana] 1961, v. 91
[no. 5] p. 545-561.

DESCRIPTORS: Synthesis, Progesterone, *Hormones,
*Steroids, Hydroxides, Alkoxy radicals, Chlorides,
Substitution reactions.

Synthesis of 6-substituted derivatives of 17 α -acetoxyprogesterone is described. The substituents are hydroxy, methoxy and chloro. Also described is a new synthesis of 6-chloro-6-dehydro-17 α -acetoxyprogesterone. (Author)

(Biological Sciences--Biochemistry, TF, v. 9, no. 3)

62-14911

I. Sciaky, R.

AUTHOR

Sciaky, Robert.
SYNTHESIS OF 16 α -METHYL-17 α -ACETOXYPRO-
GESTERONE. [8 July 61] 5p. 7 refs.
Order from S.I.A. \$1.10

62-14959

Partial trans. (p. 567-570) of Gazz[etta] Chim[ica]
Ital[iana] (Italy) 1961, v. 91 [no. 5] p. 567-570.

DESCRIPTORS: Synthesis, Hormones, *Steroids, *Pro-
gesterone, Methyl radicals, Acetyl radicals.

By the action of CH_3MgI on 16 α , 17 α -epoxy-5-pregnen-
3 β -ol-20-one-3-acetate-20-ethyleneketal there is ob-
tained, after saponification of the ketal, 16 β -methyl-
17 α -hydroxypregnenolone (1). 1 is then converted into
16 β -methyl-17 α -acetoxyprogesterone. (Author)

(Biological Sciences--Biochemistry, TT, v. 9, no. 3)

62-14959

I. Sciaky, R.

Office of Technical Services

Ruggieri, P. de, Gandolfi, C., and Chiaramonti, D.
SYNTHESIS OF PRIMARY AMINES FROM N-SUB-
STITUTED IMIDO-ESTERS. 31 Aug 61 [6]p.
Order from SLA \$1.10 62-14909

[Condensed] trans. of Gazz[etta] Chim[ica] Ital[iana]
(Italy) 1961, v. 91 [no. 6/7] p. 665-671.

DESCRIPTORS: *Amines, Synthesis, *Imides, *Esters
Chemical reactions, Metalation

A new synthesis is described for primary amines via
reduction with sodium-zinc amalgam of N-substituted
imido-esters. The course of the reaction and its ad-
vantages are discussed. (Author)

(Chemistry--Organic, TT, v. 8, no. 9)

62-14909

I. Ruggieri, P. de
II. Gandolfi, C.
III. Chiaramonti, D.

Office of Technical Services

Ruggieri, P. de, Ferrari, C., and Gandolfi, C.
STEROIDS. X. 16-METHYLANDROSTANES: 16 α -
AND 16 β -METHYLTESTOSTERONE, -DIHYDRO-
TESTOSTERONE AND THEIR HOMOLOGS. [22 Nov 61]
11p. (15 refs. omitted).
Order from SLA \$1.60

62-14958

Partial trans. (p. 691-705) of Gazzetta Chimica
[Italiana] 1961, v. 91 [no. 6/7] p. 686-705.

DESCRIPTORS: *Steroids, *Androgens, *Testosterone,
*Hormones, Methyl radicals, Synthesis.

There is described the preparation of 16 α and 16 β -
methyltestosterones, -dihydrotestosterones and their
17 α -methyl homologs by routes already in the literature
for the non-methylated compounds. The stereo configura-
tion at C-16 and C-17 is clarified. (Author) (See also
62-14910)

(Biological Sciences--Biochemistry, TT, v. 9, no. 3)

62-14958

I. Ruggieri, P. de
II. Ferrari, C.
III. Gandolfi, C.
IV. Title: 16-Methyl-
androstanes ...

Office of Technical Services

Further Research on Photolysis and Photochemical
Synthesis in Amino-Acids, by T. Pavolini.
ITALIAN, per, Gazzetta Chimica Italiana, No 91,
1961, pp 26-756 726 - 716
CSIRO/No 7156

Sci -

Aug 67

336,742

Solutions of Alkali Metals in Liquid Ammonia
Part VI. Theoretical Explanation, by Leonello
Paoloni. 17 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 787-803. 9207634

AEC-UCRL-Tr-902(L)

Sci - Chem
6 Jun 63

231,879

Research on Enamines. Rept. 1. Reactions with
Phenylisocyanate and Phenylisothiocyanate, by
Raffaello Fusco, Giuseppe Bianchetti, Silvano
Rossi, 29pp
ITALIAN, per, Gazzetta Chimica Italiana, Vol 91,
1961, pp 825-840
SIA TT-65-10076

Sci - Chem
June 67

328,928

Solutions of Alkali Metals in Liquid AMMONIA.
Part VII. The Electron Structure of the Species
Present in Sodium Solutions, by Leonello Paoloni,
19 pp.

ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 1063-1084. (9208274)

AEC-UCRL-Tr-903(L)

Sci - Chem

Jun 63

234,301

Nitrosyl HNO Action on Ketonic Compounds,
by G. Di Maio, P. A. Tardella, 10 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI, 1961,
pp 1124-1132.

NIH 12-21-63

Sci - Chem
Feb 64

250,190

Freni, Maria and Valenti, Venanzio.
TRI-PHENYLPHOSPHINIC HYDRIDES OF RHENIUM.
[1962] 11p. 7 refs.
Order from SLA \$1.60

62-18911

Trans. of Gazzetta Chimica Italiana, 1961, v. 91
[no. 12] p. 1357-1364.

DESCRIPTORS: *Complex compounds, *Rhenium compounds, Phenyl radicals, *Phosphines, Halogen compounds, *Hydrides, Synthesis, Transition elements.

In the reaction between $\text{Re}(\text{PR}_3)_2\text{X}_2$ and NaBH_4 in ethyl alcohol, one directly obtains compound $\text{H}_3\text{Re}(\text{PR}_3)_2 \cdot 2\text{C}_2\text{H}_5\text{OH}$ which, recrystallized by benzol, yields $\text{H}_3\text{Re}(\text{PR}_3)_2$ in red crystals. The same reaction, in the presence of an excess of triphenylphosphine, yields yellow $\text{H}_3\text{Re}(\text{PR}_3)_4$. These hydrides, when treated with (Chemistry--Organic, TT, v. 9, no. 10) (over)

62-18911

I. Freni, M.
II. Valenti, V.

Office of Technical Services

Electronic Structure and the Ionization
Potential of Vinyl Fluoride, by G. Favini.
ITALIANA, per, Gazzetta Chimica Italiana,
Vol 92, No 2/3, 1962, pp 244-252.
SLA TT-66-10343

Sci-Chem
Sept 66

310,375

Protagila, G., Peraldo, M., and Binaghi, M.
POLYDIMETHYLKETENE WITH A POLYKETONIC
STRUCTURE. Jan 63, 3900 words, 14 refs.
Order from CTS(Chem) \$15.60 CTS(Chem)-314
subsequent copies \$2.60/ea.

Trans. of Gazz[etta] Chim[ica] Italiana, 1962, v. 92
[no. 6] p. 488-500.

DESCRIPTORS: Polymers, Ketenes, Methyl radicals,
Synthesis, Friedel-Crafts reaction, Crystals, Molec-
ular structure, Ketones.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12659

- I. Protagila, G.
- II. Peraldo, M.
- III. Binaghi, M.
- IV. CTS(Chem)-314
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Photochemical Transformations of Amino Acids
in the Solid State, by R. Cultrera,
ITALIAN, per, Gazzetta Chimica Italiana, Vol 92,
1962, pp 519-521.

NTC-71-12205-07E

+NASA TT F 12, 989

Nov 71

Research on Wackenroder's Reaction.
Note II. On the Mechanism of the
Formation of Internal Sulfur in
Polythionic Acids, by R. Barbieri.
ITALIAN, per, Gazzetta Chimica Italiana,
Vol 92, 1962, pp 660-675
NTC 72-12316-07B

July 72

Triphenylphosphinic Hydrides of Iridium,
by Maria Angoletta, 12pp.

ITALIAN, per, Gazzetta Chimica Italiana,
Vol 92, No 8, 1962, pp 811-817.

CFSTI TT-64-18602.

322,315

Sci - Chemistry

Mar 67

Sartori, Guido.
RECENT ADVANCES IN THE CHEMISTRY OF COM-
PLEXES. Paper presented at the National Congress of
Chemistry (no. 9) held jointly with the Swiss Chemical
Society, Naples, 27 May-2 June 62. [1963] 7200 words,
58 refs.
Order from CTS(Chem) \$28.80 CTS(Chem)-333
subsequent copies \$4.80/ea.

Trans. of Gazz[etta] Chim[ica] Ital[iana] 1962, v. 92,
no. 9, p. 916-950.

DESCRIPTORS: *Complex compounds, Chemistry,
*Chemical bonds, Theory, *Molecular structure,
*Stereochemistry, *Reaction kinetics, Stability,
Synthesis.

(Chemistry, TT, v. 10, no. 2)

63-17436

I. Sartori, G.
II. Title: National...
III. Title: Swiss...
IV. CTS(Chem)-333
V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Palazzo, Francesco Carlo.

THE SUPPOSED TAUTOMERISM OF SULFUROUS
ACID (PRELIMINARY NOTE). [1963] 13p 8refs
Order from SLA \$1.60 TT-64-10501

Trans. of Gazzetta Chimica Italiana, 1962, v. 92,
no. 11, p. 1189-1197. (Abstract available)

DESCRIPTORS: *Sulfur compounds, Dioxides, Inorganic
acids, Sulfites, *Molecular isomerism,
*Chemical bonds.

Taking under examination the old question of the struc-
ture of alkaline sulfites, already amply discussed fifty
years ago, and taking into account new facts not consid-
ered at that time (electronic theory of valency, recent
advances of organic chemistry with regard to tautom-
erism), the author comes to the conclusion that the
"tautomerism" presumed for free sulfurous acid cannot
by any means be considered as proven. (Author)
(Chemistry--Inorganic: TT, v. 11, no. 9)

TT-64-10501

1. Title: Sulfurous acid
2. Title: Tautomerism
1. Palazzo, F. C.

Office of Technical Services

Photochemical Transformations of Amino Acids in
the Solid State, by R. Cultrera, F. Pullin. 5 pp
GOVERNMENT USE ONLY
ITALIAN, per, Gazetta Chimica Italiana, Vol 92,
No 6, 1962, pp 519-521.
NASA TT F 12989

sci/chemistry
aug 70

Investigation of the Structure of Proteins. Rept.6.
Progressive Degradation of Polypeptide Chains
Starting from Terminal Amino Acid. Preparation
of Chloronitropyridine and Chloronitropyrimidine
and their Activity with Amino Acids, by A.Signor
and E.Scoffone.

ITALIAN, per, Gazzetta Chimica Italiana, Vol.93,
No.1/2, pp.65-72, 1963.

/SLA-TT-66-11299

B/M
Sept 66

309,279

Investigation of the Structure of Proteins. Rept.7.
Progressive Degradation of Polypeptide Chains
Starting from Terminal Amino Acid. Preparation
of Nitroimidazole Amino Acids, by A.Signor and
E.Scoffone.

ITALIAN, per, Gazzetta Chimica Italiana, Vol.93,
No.1/2, pp.73-80,1963.

SLA-TT-66-11298

B/M

Sept 66

309,278

Investigation of the Structure of Proteins. Rept.8
Progressive Degradation of Polypeptide Chains
Starting From N-Thermal Amino Acid. Preparation
of Nitropyrimidyl Amino Acids, by E.Scoffone and
A.Signor.
ITALIAN, per, Gazzetta Chimica Italiana, Vol.93,
No.1/2, pp.81-89, 1963.
SLA-TT-66-11297

B/M
Sept 66

309,277

Investigations on the Structure of Proteins. X
Behavior of Amino Acids with Respect to Ozone,
by Aldo Previero, 11 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol 93,
1963, pp 841-848.
AEC/UCRL-Tr-1415-70

Sci/Chem
Dec 70

Investigations on the Structure of Proteins. XI.
Modifications of the Tryptophan Residue in the
Peptide Chain, by Also Previero, 13 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol 93,
1963, pp 849-858.
AEC/UCRL-Tr-1416-70

Sci/Chem
Dec 70

TT-65-13465

Field 7C

Valcavi, U.; Campanella, G.; Pacini, N.
PYRAZOLE DERIVATIVES OF TETRACYCLINE AND
CHLORTETRACYCLINE (Pirazoli Derivati della Tetraciclina e Clortetraciclina). 20p, 13 refs.
Order from SLA: \$1.60 as TT-65-13465

Trans. of Gazzetta Chimica Italiana, v93 n7 p916-18 1963.
Paper presented at the National Congress of Chemistry
(no. 9) held jointly with the meeting of the Swiss Chemical
Society, Naples, 27 May - 2 June 62.

I. Title: National ...
II. Title: Swiss ...

MR 656

Preparation of Glucose-6-Phosphate Uniformly
Labelled With ^{14}C , by P. Betto, L. Longinotti, 8 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XCIII,
1963, pp 1192-1195. 9223553
AEC-NP-Tr-1250

Sci-Chem
Sep 64

265,874

Photochemical Transformation of Aspartic
Acid in an Aqueous Solution, by
G. Ferrari.

ITALIAN, per, Gazzeta Chimica Italiana,
Vol 94, 1964, pp 223-228.

NTC 72-10210-07E

NASATTF 13079

Apr 72

Pentahalotriphenylphosphinerhenates, by M. Freni.
ITALIAN, per, Gazz Chim Ital., No 94, 1964, pp 521-525.
ATS-IJ-1512

Apr 72

A New Method for Determining the
N-Terminal Amino Acid in Polypeptides
and Proteins. Paper No. III. Use
of the Reagent 2-Cl-3, 5-Dinitro-
pyridine, by A. Signor.
ITALIAN, per, Gazzetta Chimica Italiana,
vol. 21, 1961, pp. 240-242

ITALIAN, per, Gazzetta Chimica Italiana,
Vol 94, 1964, pp 619-629
NTC 72-11598-06A
NASA TT F-11,487

June 72

Characterization Of Polythene. 3. Dependence Of
Intrinsic Viscosity On Temperature And its Evaluation
From Measurements At One Single Concentration, by
P. Maravigna, G. Montaudo.
ITALIAN, per, Gazz.chim.ital., Vol 94, No 5, 1964,
pp 1035-1042.
(GB 39/AE & CI AET 1010)

Impotentia Coeundi as a Complication in Pelvic
Fractures, by Ugo de Santis, 6 pp.
ITALIAN, per. Gazz. Int. Med. Chir., Vol 68,
15 Jul 1964, pp 1213-1217.
Dept of Navy/NMS 1244

Sci/B & M
June 68

358,495

Neukomm, S.
RECENT RESEARCHES ON THE CANCEROGENIC
PROPERTIES OF TOBACCO SMOKE AND ATMOS-
PHERIC POLLUTANTS. [1963] 10p 46refs
Order from SLA \$1.10

TT-64-14546

Trans. of [Lancette Francaise]; Gazette des Hopitaux
[Civils et Militaires] 1960, v. 132, jun. spec. no.
p. 673-676.

(Biological Sciences--Pathology, TT, v. 12, no. 1)

TT-64-14546

I. Neukomm, S.

Office of Technical Services

Search for the Most Suitable Means to Diminish the
Risk in Surgical Treatment of Thyrotoxicoses. (Use
of an Alkaloid of *Rauvolfia Serpentina*.) Preliminary
Report, by G. Damia, ⁹¹Basile, 14 pp.

ITALIAN, per, Gazz Internaz Med e Chir, Vol LVIII,
1954, pp 1376-1378.

91
S.I.A. ¹⁰³⁸ 1038/1956

Sci - Medicine
Oct 56 CTS

40,096

Usefulness of a New Preparation in The Therapy of
Hiccough, by G. Calligari, M. Marchetti. 7 pp.
ITALIAN, per, Gazzetta Internazionale di Medicina
e Chirurgia, Vol 62, 1957, pp 2424-2428.
SLA TT-64-16356

Sci/B&M
Jul 66

305,944